ABSTRACT

A gas blocking device is used in an optical fiber repeater or other device to prevent the passage of gas, for example, to prevent nitrogen from escaping from a pressurized housing through a fiber holding tube or pigtail. The gas blocking device includes a fiber containing body, a fiber organizing insert, and a locking member securing the insert to one end of the body. The fiber containing body is attached to one end of the fiber holding tube. The fibers extend from the fiber holding tube through a passageway in the body, and each of the fibers extends through a fiber receiving hole in the fiber organizing insert. The insert engages the body such that the insert is prevented from rotating with respect to the body and the fibers are protected against microbending and other damage. A material, such as hot melt glue, fills at least a portion of the body and surrounds the fibers to block the gas from entering the fiber holding tube.